



Great Basin College
 BAS – Land Surveying Emphasis
 Professor James Elithorp
 775-753-2240
JamesE@gwmail.gbcnv.edu

GBC- BAS Degree (Upper-division) Land Surveying/Geomatics Emphasis

Entrance to program:

Students must have earned the minimum of an Associates Degree from a regionally accredited institution, with a GPA of 2.0 or better, and the completion of MATH 127 Precalculus II or MATH 128 Precalculus and Trigonometry.

Completion of the following lower division courses is required as soon as practical to provide access to the Land Surveying Core Courses (Please see the prerequisites and corequisites on the individual core courses in the course descriptions):

CADD 100 Introduction to Computer-aided Drafting, and **CADD 105 Intermediate Computer-aided 2D and 3D Drafting**; or equivalent courses, or a demonstrated facility with a computer-aided drafting software package.

STAT 152 Introduction to Statistics, or an equivalent course.

GIS 109 Fundamentals of Geographic Information Systems, or an equivalent course.

PHYS 151/151L General Physics I w/Lab or **PHYS 180/180L Engineering Physics I w/Lab**, and **PHYS 152/152L General Physics II w/Lab** or **PHYS 181/181L Engineering Physics II w/Lab**, or equivalent courses.

SUR 280 Fundamentals of Geomatics I, or an elementary surveying course approved for transfer by the Land Surveying/Geomatics Program Coordinator.

SUR 281 Fundamentals of Geomatics II, or an advanced surveying course approved for transfer by the Land Surveying/Geomatics Program Coordinator.

SUR 290 Introduction to Urban Development, or courses containing the basic elements of construction surveying, land development, and subdivision design practice approved for transfer by the Land Surveying/Geomatics Program Coordinator.

Third Year - Fall		Cr	Third Year - Spring		Cr
ENG 333 Professional Communications		3	COM 113 or THTR 221 (Oral Comm)		3
MATH 181 Calculus I		4	MATH 182 Calculus II		4
INT 339 Integrative Humanities Seminar, or			SUR 330 Intro to Least Squares Adjust		3
INT 349 Integrative Social Science Seminar		3	SUR 340 Photogrammetry		3
SUR 320 GIS for Surveyors		3	SUR 365 Legal Description		3
SUR 360 Public Land Survey System		3			
	Total	16		Total	16
Fourth Year - Fall		Cr	Fourth Year - Spring		Cr
INT 359 Integrative Math Seminar, or			MGT 323 Orgnztn and Interpersnl Behav, or		
INT 369 Integrative Science Seminar		3	MGT 367 Human Resource Management		3
ECON 311 Professional Ethics		3	FIN 310 Applied Finance & Accounting		3
MGT 310 Foundations of Management		3	MGT 441 Quality Control & Problem Solving		3
SUR 440 Geodetic and GPS Surveying		3	SUR 450 Construction Surveying, or		
SUR 460 Advanced Boundary Analysis		3	SUR 455 Mine Surveying		3
			SUR 495 Land Surveying/GeomaticsCapstone		3
	Total	15		Total	15

BAS Degree Total Credits: 62

Students admitted to the BAS Program with an earned AAS Degree in land surveying/geomatics or the equivalent must complete both INT 339 Integrative Humanities and INT 349 Integrative Social Science Seminars increasing the BAS Degree Total Credits to 65 for graduation.

Note: All students graduating from Nevada institutions of higher education must satisfy the U.S. and Nevada Constitutions requirement with PSC 103 Principles of American National Government, or if the U.S. Constitutions requirement is satisfied; the Nevada Constitution